

Sequence Listing

<110> Kumar Verma, Sunil Singh, Lalji <120> UNIVERSAL PRIMERS FOR WILDLIFE IDENTIFICATION <130> U-013365-9 <140> 09/821782 <141> 2001-03-29 <160> 255 <210> 1 <211> 25 <212> DNA <213> Artificial Sequence <220> <223> Universal primer "mcb 398" for amplifying fragment of cytochrome b gene of animal species <400> 1 taccatgagg acaaatatca ttctg 25 <210> 2 <211> 26 <212> DNA <213> Artificial Sequence <220> <223> Universal primer "mcb 869" for amplifying fragment of cytochrome b gene of animal species <400> 2 cctcctagtt tgttagggat tgatcg 26 <210> 3 <211> 23 <212> DNA

<213> Artificial Sequence

<220>

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<223> primer "AFF" for amplifying fragment of cytochrome b gene of
      animal species
<400> 3
ctagtagaat gaatctgagg agg
                                                                          23
<210> 4
<211> 23
<212> DNA
<213> Artificial Sequence
<220>
<223> primer "AFR" for amplifying fragment of cytochrome b gene of
      animal species
<400> 4
tatgcaaata ggaagtatca ttc
                                                                         23
<210> 5
<211> 328
<212> DNA
<213> adil.flesh
<220>
<223> DNA sequence generated from the confiscated skin of unknown animal
      origin using primers mcb398 and mcb869
<400> 5
tgaatctgag gaggcttctc agtagacaaa gctaccctga cacgattctt tgccttccac
                                                                          60
ttcatccttc catttatcat ctcagctcta gcagcagtcc acctcctatt ccttcacgag
                                                                         120
acaggatcta acaacccctc aggaatagta tccgactcag acaaaattcc attccaccca
                                                                         180
tactacacaa tcaaagatat cctgggcctt ctagtactaa tcctagcact catactactc
                                                                         240
gtcctattct caccagacct gttaggagac cccgataact acatccctgc caaccctcta
                                                                         300
aatacccctc cccatatcaa gcctgaat
                                                                         328
<210> 6
<211> 328
<212> DNA
<213> bhz25t
<220>
<223> DNA sequence generated from the known tiger (Panthera tigris tigris)
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animal number 1 using primers mcb398 and mcb869

<400> 6

tgaatctgag	gaggcttctc	agtagacaaa	gccaccctga	cacgattctt	tgccttccac	60
ttcatccttc	catttatcat	ctcagcccta	gcagcagtcc	acctcctatt	cctccatgag	120
acaggatcta	acaacccctc	aggaatagta	tctgactcag	acaaaatccc	gttccaccca	180
tactacacaa	tcaaagacat	cctgggcctt	ctagtactaa	tcctaacact	catactactc	240
	caccagacct		cccgataact	acatccccgc	caaccctcta	300
aacacccctc	cccatatcaa	gcgcgaat				328

<210> 7

<211> 328

<212> DNA

<213> bhz26t

<220>

<223> DNA sequence generated from the known tiger (Panthera tigris tigris) animal number 2 using primers mcb398 and mcb869

<400> 7

tgaatctgag gaggc					60
ttcatccttc cattt	atcat ctcagcccta	gcagcagtcc	acctcctatt	cctccatgag	120
acaggatcta acaac	ccctc aggaatagta	tctgactcag	acaaaatccc	gttccaccca	180
tactacacaa tcaaa	gacat cctgggcctt	ctagtactaa	tcctaacact	catactactc	240
gtcctattct cacca	gacct attaggggac	cccgataact	acatccccgc	caaccctcta	300
aacacccctc cccat	atcaa qcqcqaat				328

<210> 8

<211> 328

<212> DNA

<213> bhz30t

<220>

<223> DNA sequence generated from the known tiger (Panthera tigris tigris) animal number 3 using primers mcb398 and mcb869

<400> 8

tgaatctgag	gaggcttctc	agtagacaaa	gccaccctga	cacgattctt	tgccttccac	60
ttcatccttc	catttatcat	ctcagcccta	gcagcagtcc	acctcctatt	cctccatgag	120
acaggatcta	acaacccctc	aggaatagta	tctgactcag	acaaaatccc	gttccaccca	180
tactacacaa	tcaaagacat	cctgggcctt	ctagtactaa	tcctaacact	catactactc	240
gtcctattct	caccagacct	attaggggac	cccgataact	acatccccgc	caaccctcta	300
aacacccctc	cccatatcaa	gcgcgaat				328

<210> 9

<211> 328

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<212> DNA
<213> bhz45t
<220>
<223> DNA sequence generated from the known tiger (Panthera tigris tigris)
     number 4 using primers mcb398 and mcb869
<400> 9
tgaatctgag gaggcttctc agtagacaaa gccaccctga cacgattctt tgccttccac
                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaacecete aggaatagta tetgaeteag acaaaateee gtteeaceca
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac cccgataact acatccccgc caaccctcta
                                                                         300
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 10
<211> 328
<212> DNA
<213> bhz56t
<220>
<223> DNA sequence generated from the known tiger (Panthera tigris tigris)
   animal number 5 using primers mcb398 and mcb869
<400> 10
tgaatctgag gaggettete agtagacaaa geeaceetga caegattett tgeetteeae
                                                                          60
ticatectic catitateat eteageecta geageagtee acctectatt ectecatgag
                                                                         120
acaggateta acaacceete aggaatagta tetgaeteag acaaaateee gttecaecea
                                                                         180
                                                                         240
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         300
gtectattet caccagacet attaggggac cecgataact acateceege caacceteta.
                                                                         328
aacacccctc cccatatcaa gcgcgaat
<210> 11
<211> 328
<212> DNA
<213> bhz63t
<220>
<223> DNA sequence generated from the known tiger (Panthera tigris tigris)
      animal number 6 using primers mcb398 and mcb869
<400> 11
tgaatctgag gaggcttctc agtagacaaa gccaccctga cacgattctt tgccttccac
                                                                          60
ticatectic catttateat cicageecta geageagtee acctectatt cetecatgag
                                                                         120
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acaggateta acaaccecte aggaatagta tetgacteag acaaaateee gttecaccea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                          240
gtcctattct caccagacct attaggggac cccgataact acatccccgc caaccctcta
                                                                          300
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 12
<211> 328
<212> DNA
<213> bhz20wt
<220>
<223> DNA sequence generated from the known white tiger (Panthera tigris
      tigris) animal number 1 using primers mcb398 and mcb869
<400> 12
tgaatctgag gaggcttctc agtagacaaa gccaccctga cacgattctt tgccttccac
                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaaccecte aggaatagta tetgaeteag acaaaateee gtteeaccea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac cccgataact acatccccgc caaccctcta
                                                                         300
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 13
<211> 328
<212> DNA
<213> bhz22wt
<220>
<223> DNA sequence generated from the known white tiger (Panthera tigris
      tigris) animal number 2 using primers mcb398 and mcb869
<400> 13
tgaatctgag gaggcttctc agtagacaaa gccaccctga cacgattctt tgccttccac
                                                                          60
ttcatcettc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaaeceete aggaatagta tetgaeteag acaaaateee gttecaecea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac cccgataact acatccccqc caaccctcta
                                                                         300
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 14
<211> 328
<212> DNA
<213> bhz23wt
<220>
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<223> DNA sequence generated from the known white tiger (Panthera tigris
      tigris) animal number 3 using primers mcb398 and mcb869
<400> 14
tgaatctgag gaggettete agtagacaaa gecaeeetga caegattett tgeetteeae
                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaacecete aggaatagta tetgacteag acaaaateee gttecaceca
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac cccgataact acatccccgc caaccctcta
                                                                         300
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 15
<211> 328
<212> DNA
<213> bhz28wt
<220>
<223> DNA sequence generated from the known white tiger (Panthera tigris
      tigris) animal number 4 using primers mcb398 and mcb869
<400> 15
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                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaaeceete aggaatagta tetgaeteag acaaaateee gtteeaecea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac cccgataact acatccccgc caaccctcta
                                                                         300
aacacccctc cccatatcaa gcgcgaat
                                                                         328
<210> 16
<211> 328
<212> DNA
<213> gz1L
<220>
<223> DNA sequence generated from the known leopard (Panthera pardus) animal
      number 1 using primers mcb398 and mcb869
<400> 16
tgaatctgag gaggettete agtagacaaa getaeettga caeqattett tgeetteeae
                                                                          60
ttcatccttc catttatcat ctcagctcta gcagcagtcc acctcctatt ccttcacgag
                                                                         120
acaggateta acaaeceete aggaatagta teegaeteag acaaaattee atteeaecea
                                                                         180
tactacacaa tcaaagatat cctgggcctt ctagtactaa tcctagcact catactactc
                                                                         240
gtcctattct caccagacct gttaggagac cccgataact acatccctgc caaccctcta
                                                                         300
aatacccctc cccatatcaa gcctgaat
                                                                         328
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<211> 328
<212> DNA
<213> gz2L
<220>
<223> DNA sequence generated from the known leopard (Panthera pardus) animal
      number 2 using primers mcb398 and mcb869
<400> 17
tgaatctgag gaggettete agtagacaaa getacettga cacqattett tgeetteeae
                                                                          60
ttcatcette catttateat etcageteta geageagtee aceteetatt eetteaegag
                                                                         120
acaggateta acaacceete aggaatagta tetgacteag acaaaattee attecaccea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcttagcact catactactc
                                                                         240
gtcctattct caccagacct gttgggagac cccgataact acatccccgc caaccctcta
                                                                         300
aatacccctc cccatatcaa gcctgaat
                                                                         328
<210> 18
<211> 328
<212> DNA
<213> gz3L
<220>
<223> DNA sequence generated from the known leopard (Panthera pardus) animal
      number 3 using primers mcb398 and mcb869
<400> 18
tgaatctgag gaggettete agtagacaaa getaeettga caegattett tgeetteeae
                                                                          60
ttcatccttc catttatcat ctcagctcta gcagcagtcc acctcctatt ccttcacgag
                                                                         120
acaggateta acaacceete aggaatagta tetgaeteag acaaaattee attecaccea
                                                                         180
tactacacaa tcaaagacat cetgggeett etagtactaa tettageact catactacte
                                                                         240
gtectattet caccagacet gttgggagae ceegataaet acateceege caaceeteta
                                                                         300
aatacccctc cccatatcaa gcctgaat
                                                                         328
<210> 19
<211> 328
<212> DNA
<213> gz21CL
<220>
<223> DNA sequence generated from the known clouded leopard (Neofelis
     nebulosa) animal number 1 using primers mcb398 and mcb869
<400> 19
tgaatctgag gaggettete agtagacaaa gecaecetga cacgattttt egeetteeae
                                                                          60
ttcatcctcc catttatcat ctcagcctta gcagcagttc accttctatt tctccatgaa
                                                                         120
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acaggatcca ataacccctc aggaatggta tccgattcag acaaaatccc gttccacccg
                                                                         180
tactatacaa tcaaagatat cctaggcctc ctagttctaa ttctagcgct cacactactt
                                                                         240
gttctattct ccccagacct actaggagac cctgacaatt acactcccgc caaccctcta
                                                                         300
aatacccctc cccatatcaa qcctqaat
                                                                         328
<210> 20
<211> 328
<212> DNA
<213> gz22CL
<220>
<223> DNA sequence generated from the known clouded leopard (Neofelis
      nebulosa) animal number 2 using primers mcb398 and mcb869
<400> 20
tgaatctgag gaggettete agtagacaaa gecaeeetga eacgattttt egeetteeae
                                                                          60
ttcatcctcc catttatcat ctcagcctta gcagcagttc accttctatt tctccatgaa
                                                                         120
acaggateca ataacceete aggaatggta teegatteag acaaaateee gtteeacceg
                                                                         180
tactatacaa tcaaagatat cctaggcctc ctagttctaa ttctagcgct cacactactt
                                                                         240
gttctattct ccccagacct actaggagac cctgacaatt acactcccqc caaccctcta
                                                                         300
aatacccctc cccatatcaa gcctgaat
                                                                         328
<210> 21
<211> 328
<212> DNA
<213> darz14SL
<220>
<223> DNA sequence generated from the known snow leopard (Panthera unica)
      animal number 1 using primers mcb398 and mcb869
<400> 21
tgaatctgag gaggcttctc agtacacaaa gccaccctga cacgattctt tgccttccac
                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaacecete aggaatagta tetgaeteag acaaaateee gtteeaceca
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac gccgataact acatccccgc caaccctcta
                                                                         300
aacacccctc cccatatcaa gcccgaat
                                                                         328
<210> 22
<211> 328
<212> DNA
<213> darz15SL
<220>
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<223> DNA sequence generated from the known snow leopard (Panthera unica)
      animal number 2 using primers mcb398 and mcb869
<400> 22
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                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaacceete aggaatagta tetgacteag acaaaateee gttecaccea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac gccgataact acatccccgc caaccctcta
                                                                         300
aacacccctc cccatatcaa gcccgaat
                                                                         328
<210> 23
<211> 328
<212> DNA
<213> darz16SL
<220>
<223> DNA sequence generated from the known snow leopard (Panthera unica)
      animal number 3 using primers mcb398 and mcb869
<400> 23
tgaatctgag gaggcttctc agtacacaaa gccaccctga cacgattctt tgccttccac
                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctatt cctccatgag
                                                                         120
acaggateta acaaccecte aggaatagta tetgacteag acaaaateee gttecaccea
                                                                         180
tactacacaa tcaaagacat cctgggcctt ctagtactaa tcctaacact catactactc
                                                                         240
gtcctattct caccagacct attaggggac gccgataact acatccccgc caaccctcta
                                                                         300
aacacccctc cccatatcaa gcccgaat
                                                                         328
<210> 24
<211> 328
<212> DNA
<213> sbz22AL
<220>
<223> DNA sequence generated from the known asiatic lion (Panthera leo
      persica) animal number 1 using primers mcb398 and mcb869
<400> 24
tgaatotgag gaggottoto agtagacaaa gocaccotga cacqattott tqoottocac
                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctgtt cctccatgaa
                                                                         120
acaggateta ataaceete aggaatggta tetgacteag ataaaattee attecateea
                                                                         180
tactatacaa tcaaagatat cctaggcctt ctagtactaa tcttaacact catactactc
                                                                         240
gtcctattct caccagacct attaggagat cccgacaact atacccccgc caatcctcta
                                                                         300
agcacccctc cccatatcaa acctgaat
                                                                         328
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<211> 328
<212> DNA
<213> sbz38AL
<220>
<223> DNA sequence generated from the known asiatic lion (Panthera leo
      persica) animal number 2 using primers mcb398 and mcb869
<400> 25
tgaatctgag gaggcttctc agtagacaaa gccaccctga cacgattctt tgccttccac
                                                                          60
ttcatccttc catttatcat ctcagcccta gcagcagtcc acctcctgtt cctccatgaa
                                                                         120
acaggateta ataacceete aggaatggta tetgaeteag ataaaattee attecateea
                                                                         180
tactatacaa tcaaagatat cctaggcctt ctagtactaa tcttaacact catactactc
                                                                         240
gtoctattot caccagacot attaggagat cocgacaact ataccoccgo caatcotota
                                                                         300
agcacccctc cccatatcaa acctgaat
                                                                         328
<210> 26
<211> 328
<212> DNA
<213> sbz39AL
<220>
<223> DNA sequence generated from the known asiatic lion (Panthera leo
      persica) animal number 3 using primers mcb398 and mcb869
<400> 26
tgaatctgag gaggcttctc agtagacaaa gccaccctga cacgattctt tgccttccac
                                                                          60
ttcatcette catttatcat etcageceta geageagtee aceteetgtt cetecatgaa
                                                                         120
acaggateta ataaceeete aggaatggta tetgaeteag ataaaattee attecateea
                                                                         180
tactatacaa tcaaagatat cctaggcctt ctagtactaa tcttaacact catactactc
                                                                         240
gtcctattct caccagacct attaggagat cccgacaact atacccccgc caatcctcta
                                                                         300
agcacccctc cccatatcaa acctgaat
                                                                         328
<210> 27
<211> 328
<212> DNA
<213> humsk
<220>
<223> DNA sequence generated from the known human (Homo sapiens sapiens) using
     primers mcb398 and mcb869
<400> 27
tgaatctgag gaggctactc agtagacagt cccaccctca cacqattct: tacctttcac
                                                                        60
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ttcatcttgc ccttcattat tgcagcccta gcagcactcc acctcctatt cttgcacgaa
                                                                         120
acgggatcaa acaacccct aggaatcacc tcccattccg ataaaatcat cttccaccct
                                                                          180
tactacacaa tcaaagacgc cctcggctta cttctcttcc ttctctcctt aatgacatta
                                                                          240
acactattct caccagacct cctaggcgac ccagacaatt ataccctagc caacccctta
                                                                          300
aacacccctc cccacatcaa gcccgaat
                                                                          328
<210> 28
<211> 328
<212> DNA
<213> chimss
<220>
<223> DNA sequence generated from the known chimpanzee (pan troglodytes)
      animal using primers mcb398 and mcb869
<400> 28
tgaatctgag gaggctactc agtagacagc cctaccctta cacgattctt caccttccac
                                                                          60
tttatettae cetteattat cacageceta acaacaette ateteetatt ettacaegaa
                                                                         120
acaggatcaa ataaccccct gggaatcacc tcccactccg acaaaattac cttccacccc
                                                                         180
tactacacaa tcaaagatat ccttggctta ttccttttcc tccttatcct aatgacatta
                                                                         240
acactattct caccagacct cctgggcgat ccagacaact ataccctagc taacccccta
                                                                         300
aacaccccac cccacattaa acccgaat
                                                                         328
<210> 29
<211> 472
<212> DNA
<213> Cervus nippon centralis
<400> 29
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                                                                          60
                                                                         120
ttccatatat tggcacaaac ctagtcgaat ggatctgagg gggcttctca gtagataaag
caaccetaac cegattitte getticeact tiattetice attiateate geageactig
                                                                         180
ctatagtaca cttactcttc cttcacgaga caggatccaa caacccaaca ggaatcccat
                                                                         240
cggacgcaga caaaatcccc ttccatcctt actacaccat taaagatatc ttaggcatct
                                                                         300
tacttctagt actcttccta atattactag tattattcgc accagacctg cttggagatc
                                                                         360
cagacaacta taccccagca aatccactca acacacccc tcacatcaaa cctgaatgat
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acttectatt tgcatacgca atectacgat caatteccaa caaactagga gg
                                                                         472
<210> 30
<211> 472
<212> DNA
<213> Cervus nippon yesoensis
<400> 30
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                                                                          60
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ttccatatat tggcacaaac ctagtcgaat ggatctgagg gggcttctca gtagataaag caaccctaac ccgattttc gctttccact ttattcttcc atttatcatc gcagcacttg ctatagtaca cttactctc cttcacgaga caggatccaa caacccaaca ggaatcccat cggacgcaga caaaatcccc ttccatcctt actacaccat taaagatatc ttaggcatct tacttctagt actcttccta atattactag tattattcgc accagacctg cttggagatc cagacaacta tacccagca aatccactca acacacccc tcacatcaaa cctgaatgat acttcctatt tgcatacgca atcctacgat caattcccaa caaactagga gg	120 180 240 300 360 420 472
□<210> 31	
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•					
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